Index of Authors

AL-BALDAWI, F. A. K. *See* KERSHAW, W. E.
ANDERSON, R. M. Stochastic and deterministic models of host-parasite systems, i
ANGUS, K. W. *See* COOP, R. L.
ARME, C. and FOX, G. *Diclidophora merlangi* (Monogenea): oxygen uptake, xxii
ARME, C. *See* THREADGOLD, L. T.
ARMOUR, J. *See* DARGIE, J. D.
ARMOUR, J. *See* WRIGHT, S.

BAILEY, G. N. A. Energetics of a host-parasite system, xxi
BARKER, I. K. Scanning electron microscopy of the duodenal mucosa of lambs infected with *Trichostrongylus colubriformis*, 307
BARRETT, J. and BEIS, I. The control of energy metabolism in the developing eggs of *Ascaris lumbricoides*, xxii
BEER, R. J. S. Studies on the biology of the life-cycle of *Trichuris suis* Schrank, 1788, 253
BEER, R. J. S. Morphological descriptions of the egg and larval stages of *Trichuris suis* Schrank, 1788, 263
BEFUS, A. D. *See* HOPKINS, C. A.
BEHBEHANI, K. Experimental infections of T-cell-deprived CBA mice with virulent and chronic strains of *Trypanosoma* (*Schizotrypanum*) *cruzi* (Chagas, 1909), xxiii
BEHNKE, J. M. and WAKELIN, D. The survival of *Trichuris muris* in wild populations of its natural hosts, 157
BEIS, I. *See* BARRETT, J.
BENNET, C. E. Changes in the caecal epithelium of *Fasciola hepatica* from infection to maturation, xxix
BERRY, A. D. The incidence of eye flukes in fish from the Thames, vii
BERRY, C. I., DARGIE, J. D. and PRESTON, J. M. Studies on the nutritional effects of schistosomiasis in sheep, vi
BINGHAM, A. *See* KERSHAW, W. E.
BLAIR, ANDREW. *See* CROLL, NEIL A.
BLAKE, C. J. Evidence for a possible immune reaction against an intestinal trematode, xvii
BOCTOR, FOUAD N. *See* TATCHELL, ROGER J.
BOOKER, B. E. *See* GOODWIN, L. G.
BRADLEY, DAVID J. The genetics of resistance to visceral leishmaniasis in mice, xxx
BRUCE, A. J. *Prophryxus globicaudatus* gen.nov., sp.nov., a hemiarthrinid bopyrid parasite of pontoniinid shrimps of the genus *Coralliocaris* Stimpson, 365
BRUCE, R. G. *Trichinella spiralis*: the structure and function of the hypodermal gland cells, xxix
BRUCE, R. G. *See* WRIGHT, S.
BRYANT, VICTORIA. Growth and respiration throughout the life-cycle of *Nematospiroides dubius* Baylis, 1926 (Nematoda: Heligmosomidae). The free-living stages, 245
BUTCHER, G. A. *See* MITCHELL, G. H.
BUZZELL, GERALD R. Studies on the glands in the miracidium of *Fasciola hepatica*, xix

CALEY, JENNIFER, Why does the cysticercoid larva of *Hymenolepis microstoma* retract its scolex?, xviii
CAMPBELL, A. D. Acquisition of a parasite fauna by an experimental salmon stock, ix
CANNING, ELIZABETH U. and SINDEN, R. E. The organization of the ookinete and observations on nuclear division in oocysts of *Plasmodium berghei*, 29
CHAPMAN, H. D. Coccidia in lambs, xii
CHAPMAN, H. D. and WILSON, R. A. The propulsion of the cercariae of *Himasthla secunda* (Nicoll) and *Cryptocotyle lingua*, 1
CHAPPELL, L. H. Amino acid uptake in schistosomes, xxi
CHAPPELL, L. H. and READ, C. P. Studies on the free pool amino acids of the cestode *Hymenolepis diminuta*, 289

CHERNIN, JACK. The histopathology of the liver of gerbils, mice and rats infected with *Taenia crassiceps*, vi
CHIODINI, P. L. Studies on Babesia *in vitro*, xiv
CLARKE, W. *See* Turton, J.A.
CLEGG, J. A., KUSEL, J. R. and SMITHERS, S. R. Cell-mediated immunity in schistosomiasis, xxiv.
COHEN, S. *See* MITCHEL, G. H.
COLES, G. C. Antimony and schistosomes, xv
COOP, R. L. and ANGUS, K. W. The effect of continuous doses of *Trichostrongylus colubriformis* larvae on serum electrolytes and intestinal enzyme activity in sheep, v
COX, F. E. G. and WEDDERBURN, NINA. Reciprocal effects between oncogenic viruses and malaria parasites and piroplasms in mice, xxix
CROLL, NEIL A. and BLAIR, ANDREW. Inherent movement patterns of larval nematodes, with a stochastic model to simulate movement of infective hookworm larvae, 53
CROMPTON, D. W. T. and NESHEIM, M. C. Relationships between *Moniliformis dubius* (Acanthocephala) and the carbohydrate intake of rats, ii
CROSS, G. A. M. and MANNING, J. C. Cultivation of *Trypanosoma brucei* sspp. in semi-defined and defined media, 315

DARGIE, J. D. *See* BERRY, C. I.
DARGIE, J. D., ARMOUR, J. and URQUHART, J. M. Studies on immunity to *Fasciola hepatica*, xxv
DAVEY, J. T. and LOWE, D. M. Anisakine nematode investigations on the Farne Island grey seal population following the 1972 cull, xxviii
DENHAM, D. A. The relationship between adult worm numbers and microfilarial levels in *Brugia pahangi* infections in cats, iv
DICKERSON, G. Experimental ovine schistosomiasis, iii
DONNELLY, J. The transmission of *Babesia divergens* by *Ixodes ricinus*, xiii
DUSSART, G. B. J. *See* WILLIAMS, N. V.

ENAYAT, M. S. *See* KERSHAW, W. E.
EMSLIE, V. W. *See* KERSHAW, W. E.
ERASMUS, DAVID. A comparative study of the reproductive system of mature, immature and 'unisexual' female *Schistosoma mansoni*, 165

FANIMO, O. *See* WILLIAMS, S. G.
FERGUSON, D. J. P. and HUTCHISON, W. M. Ultrastructure of the intestinal forms of *Toxoplasma gondii*, xii
FINNEY, JEAN R. The physiological interactions between a nematode parasite and its insect hosts, i
FOX, G. *See* ARME, C.
FREEMAN, JOAN, HUDSON, K. M., LONGSTAFFE, J. A. and TERRY, R. J. Immunodepression in trypanosome infections, xxiii

GIBSON, DAVID I. Some 'blue' whale nematodes, viii
GOIL, MADAN M. Phosphatase systems in *Fasciolopsis buski* Lankester, 1857 and *Gastrodiscus aegyptiacus* Cobbold, 1876, 197
GOODALL, R. IAN. *Hymenolepis diminuta* in the mouse: effects of heterologous antigens on worm rejection – a possible biological model for antigenic competition, xviii
GOODWIN, L. G., GUY, M. W. and BOOKER, B. E. Connective tissue changes in rabbits infected with *Trypanosoma* (*Trypanozoon*) *brucei*, 115
GOOSE, J. and MACGREGOR, MICHELLE. Naturally acquired immunity to *Fasciola hepatica* in the rat, xxv
GRAY, J. S. Studies on host resistance to secondary infections of *Raillietina cesticillus* Molin, 1858 in the fowl, 375
GRAY, J. S. The effect of gonadal steroids on the course of *Raillietina cesticillus* infection in the fowl, iii
GUY, M. W. *See* GOODWIN, L. G.

HALTON, D. W. The alimentary tract of a monogenetic gill fluke, *Diclidophora merlangi*, xxv
HANNA, R. E. B. An experimental technique for investigating the function of cell and organ systems in *Fasciola hepatica*, xvi
HARNESS, E. *See* HUGHES, D. L.
HARRIS, MARTYN T. A preliminary study of *Ligula* infestations of bleak in the Thames, viii
HARRIS, W. G. The allergens of *Schistosoma mansoni*, xxiv
HARRY, OWEN G. Some problems in the classification of gregarines, xxvi
HAWKING, F. The trypanocidal action of normal human serum, xxxi
HO, JU-SHEY. Chondracanthid copepods parasitic on platycephalid fishes of Australia, with discussion of known species occurring on flatheads, 123
HOCKLEY, D. J. The outer membrane of *Schistosoma mansoni*, xxxi
HOLDSTOCK, R. P. *Brugia pahangi* in the cat: immunity and immune mechanisms, x
HOPKINS, C. A., STALLARD, HELEN and BEFUS, A. D. Immunological rejection of *Hymenolepis diminuta* by mice, xvii
HUDSON, K. M. *See* FREEMAN, JOAN
HUGHES, D. L. and HARNESS, E. Intrabiliary transfer of *Fasciola hepatica* in goats as an aid to anthelmintic and immunological studies, iv
HUTCHISON, W. M. *See* FERGUSON, D. J. P.

JAMES, E. R. *Trichinella spiralis*: stage specific immunity, ix
JAMES, J. L. The ultrastructure of the miracidium of *Parorchis acanthus* Nicoll, 1907, xxxi
JENKINS, D. C. Effects of host age on the establishment of an immune-adapted population of *Nippostrongylus brasiliensis* in the rat, ix
JONES, ARLENE. The morphology of *Bothriocephalus scorpii* Müller (Pseudophyllidae, Bothriocephalidae) from littoral fishes in Cardigan Bay, viii
JONES, GWYNETH M. Ultrastructure of the amphids and amphidial glands of *Syngamus trachea*, xxxii
JOYNER, L. P. and NORTON, C. C. The immunity arising from continuous low-level infection with *Eimeria tenella*, 333
JOYNER, L. P. *See* NORTON, C. C.

KAUFMAN, WILLIAM R. *See* MEREDITH, JOAN
KENNEDY, C. R. The natural regulation of *Pomphorhynchus laevis* populations in fish, vii
KERR, JOHN D. *See* TATCHELL, ROGER J.
KERSHAW, W. E., WELLS, PHYLLIS D., STOREY, D. M., BINGHAM, A. and ENAYAT, M. S. Antigen extracts from filariasis in the cotton rat, xi
KERSHAW, W. E., WELLS, P. D., STOREY, D. M., BINGHAM, A., ENAYAT, M. S., RATNAPALA, P. R. and AL-BALDAWI, F. A. K. The effects of a previous infection with filariasis in the cotton rat on a subsequent infection, xxv
KERSHAW, W. E., WELLS, P. D., STOREY, D. M., BINGHAM, A., ENAYAT, M. S., RATNAPALA, P. R., AL-BALDAWI, F. A. K. and EMSLIE, V. W. Vitamin A deficiency and filariasis of the cotton rat, iv
KERSHAW, W. E., WELLS, PHYLLIS D., STOREY, D. M., BINGHAM, A., ENAYAT, M. S., RATNAPALA, P. R., AL-BALDAWI, F. A. K. and EMSLIE, V. W. Vitamin E deficiency in cotton rat filariasis, v
KERSHAW, W. E., WELLS, PHYLLIS D., STOREY, D. M., BINGHAM, A., ENAYAT, M. S., RATNAPALA, P. R., AL-BALDAWI, F. A. K. and EMSLIE, V. W. The mast cells in the lungs of rats infected with *Nippostrongylus brasiliensis*, xi
KHALIL, L. F. The helminth parasites of non-human primates, iv
KUSEL, J. R. *See* CLEGG, J. A.

LACKIE, ANN. Some factors involved in the activation and evagination of cystacanths of *Polymorphus minutus*, xvi
LAMINA, J. *See* SPRENT, J. F. A.
LANDE, VIRGINIA, VAN DER. *See* TINSLEY, R. C.
LATTER, VICTORIA S. Chemotherapeutic studies on *Eimeria tenella in vitro*, xv
LEE, R. M. The relationship between biological action and structure for some fasciolicidal salicylanilides, xiii

LETHBRIDGE, R. C. Penetration gland secretion in *Hymenolepis diminuta* hexacanths, xix
LEWIS, J. W. Internal pressure changes in the dranunculoid nematode *Philonema oncorhynchi*, xv
LONG, P. L. Studies on the relationship between *Eimeria acervulina* and *Eimeria mivati*, 143
LONGSTAFFE, J. A. *See* FREEMAN, JOAN
LOWE, D. M. *See* DAVEY, J. T.

MACGREGOR, MICHELLE. *See* GOOSE, J.

MCHARDY, N. Observations on the effect of anti-erythrocyte serum in mice infected with *Babesia rodhaini*, xxx
MCLAREN, DIANE J. Ultrastructural and cytochemical observations on *Necator americanus*, xxix
MACKENZIE, A. R. Autoimmunity in African trypanosomiases, xxiii
MACKENZIE, P. E. *See* SHER, A.
MCKEOWN, ANN. *See* SPRENT, J. F. A.
MANNING, J. C. *See* CROSS, G. A. M.
MATTHEWS, R. A. The life-cycle of *Bucephalus haimeanus* Lacaze-Duthiers, 1854 from *Cardium edule* L., 341
MEAD-BRIGGS, A. R. and VAUGHAN, J. A. The incidence of Anoplocephaline cestodes in a population of rabbits in Surrey, England, 351
MEAKINS, A. H. and WALKEY, M. Aspects of *in vivo* growth of the plerocercoid stage of *Schistocephalus solidus*, 133
MEREDITH, JOAN and KAUFMAN, WILLIAM R. A proposed site of secretion in the salivary gland of the ixodid tick *Dermacentor andersoni*, 205
MICHAEL, E. The reaction of the fowl intestinal mucosa to infection with the *Eimeria* species *E. acervulina* and *E. necatrix*, xii
MITCHELL, G. H., BUTCHER, G. A. and COHEN, S. A method for the isolation of merozoites from the erythrocytic cycle of *Plasmodium knowlesi*, xxx
MITCHELL, J. B. The relationship between the retention of penetration glands by the juvenile of *Gorgoderina vitelliloba* and its migrations in the definitive host, xx
MOLYNEUX, D. H. Studies on the biology of avian West African trypanosomes, xxiii

NESHEIM, M. C. *See* CROMPTON, D. W. T.
NORTON, C. C. and JOYNER, L. P. *Eimeria meleagridis* recently isolated from British turkeys, xiii
NORTON, C. C. *See* JOYNER, L. P.

OGILVIE, BRIDGET M. Studies on the function of the excretory glands of nematodes, xxix
OXBROW, A. I. Strain specific immunity to *Plasmodium berghei*: a new genetic marker, 17

PAPPAS, PETER, W. *See* UGLEM, GARY L.
PARKER, STELLA. Exsheathment in *Dictyocaulus viviparus* infective larvae, xv
PEREZ, H. *See* SHER, A.
PHILLIPS, R. S. and WAKELIN, D. The effect of concurrent protozoal infections upon the expulsion of *Trichuris muris* from mice, xix
PHILLIPSON, R. F. Intermittent egg production by *Aspiculuris tetraptera* in mice, vii
PRESTON, J. M. *See* BERRY, C. I.
PRICHARD, R. K. Recent work on some anthelmintics which have a specific antimetabolite effect on the parasite, xiv

RATNAPALA, P. R. *See* KERSHAW, W. E.
READ, C. P. *See* CHAPPELL, L. H.
READ, CLARK P. *See* UGLEM, GARY L.
READER, T. A. J. Ultrastructural observations on the sporocyst and developing cercariae of *Cercaria helvetica XII*, xxxii
REES, GWENDOLEN. The ultrastructure of the cysticercoid of *Tatria octacantha* Rees, 1973 (Cyclophillidae: Amabiliidae) from the haemocoele of the damsel-fly nymphs *Pyrrhosoma nymphula*, Sulz and *Enallagma cyathigerum*, Charp, 85
RICHARDS, D. H. H. *See* WILLIAMS, HARFORD.

RILEY, J. On the question of pentastomid phylogeny, xxvi
ROGERS, ROSEMARY. Studies of lymphatic function in cats infected with *Brugia pahangi*, vii
ROGERS, W. P. Juvenile and moulting hormones from nematodes, 105
RUITENBERG, E. J. *See* TEPPEMA, J. S.

SANDERSON, BARBARA E. Effect of metrifonate on *Schistosoma mansoni* and *S. haematobium* cholinesterases, xxii
SELBY, GWENDOLINE R. and WAKELIN, D. The effect of lactation and diethyl stilbestrol on the immune response to *Trichuris muris* in mice, x
SHAW, J. R. Ultrastructural studies of *Schistosoma mansoni* maintained *in vitro*, xxxi
SHER, A., PEREZ, H. and MACKENZIE, P. E. The recovery of young schistosomes from the lungs: a new and rapid assay for immunity, xxiv
SLUITERS, J. F. Study on the life-cycle of *Anisakis* sp., xxviii
SINDEN, R. E. *See* CANNING, ELIZABETH U.
SMITH, J. W. The biology and evolution of blood flukes with special reference to a new sanguinicolid genus in basking shark, xxvii
SMITHERS, S. R. *See* CLEGG, J. A.
SPRENT, J. F. A. Studies on ascaridoid nematodes of pythons: two new species from New Guinea, 229
SPRENT, J. F. A., LAMINA, J. and MCKEOWN, ANN. Observations on migratory behaviour and development of *Baylisascaris tasmaniensis*, 67
STALLARD, HELEN. *See* HOPKINS, C. A.
STOREY, D. M. *See* KERSHAW, W. E.
STURROCK, R. F. *See* UPATHAM, E. S.

TATCHELL, ROGER, J., KERR, JOHN D. and BOCTOR, FOUAD N. Biochemical and physiological studies of certain ticks (Ixodoidea). Haemolysis rate and meal size in the interactions between *Argas* (*Persicargas*) *arboreus* Kaiser, Hoogstraal and Kohls, *A.* (*P.*) *persicus* (Oken) (Argasidae) and some avian hosts, 41
TEPPEMA, J. S. and RUITENBERG, E. J. Influence of immunity on the intestinal phase of *Trichinella spiralis*, x
TERRY, R. J. *See* FREEMAN, JOAN.
THREADGOLD, L. T. and ARME, C. Autophagy in *Fasciola hepatica*, xx
TINSLEY, R. C. and VAN DER LANDE, VIRGINIA. The life history of *Marsupiobdella africana* (Hirudinea: Glossiphonidae) with reference to leech phylogeny, xxvii
TURTON, J. A. Studies on a self-infection with *Hymenolepis*, iv

UGLEM, GARY L., PAPPAS, PETER W. and READ, CLARK P. Surface aminopeptidase in *Moniliformis dubius* and its relation to amino acid uptake, 185
UPATHAM, E. S. and STURROCK, R. F. Studies on the effects of cercarial concentration and length of exposure on the infection of mice by *Schistosoma mansoni*, 219
URQUHART, G. M. *See* DARGIE, J. D.

VAUGHAN, J. A. *See* MEAD-BRIGGS, A. R.

WALKEY, M. *See* MEAKINS, R. H.
WAKELIN, D. *See* BEHNKE, J. M.
WAKELIN, D. *See* PHILLIPS, R. S.
WAKELIN, D. *See* SELBY, GWENDOLINE R.
WEDDERBURN, NINA *See* COX, F. E. G.
WELLS, J. *See* WHITFIELD, P. J.
WELLS, PHYLLIS, D. *See* KERSHAW, W. B.
WHITFIELD, P. J. and WELLS, J. Observations on the ectoparasitic digenean *Transversotrema patialensis*, xxvii
WILLIAMS, HARFORD and RICHARDS, D. H. H. The ecology, functional morphology and taxonomy of new species of nematodes from European North Atlantic rays, xxviii
WILLIAMS, N. V. and DUSSART, G. B. J. Relationship between water chemistry and the physiology of aquatic vectors of bilharzia, vii

WILLIAMS, R. B. Effect of different infection rates on the oocyst production of *Eimeria acervulina* or *Eimeria tenella* in the chicken, 279
WILLIAMS, S. G. and FANIMO, O. Chloroquine resistance and the intracellular pH of erythrocytes parasitized with *Plasmodium berghei*, xiv
WILSON, R. A. *See* CHAPMAN, H. D.
WORMS, M. J. The adaptation of *Necator americanus* to the golden hamster, ii
WRIGHT, S., ARMOUR, J. and BRUCE, R. G. Inhibited development of *Ostertagia ostertagi*, xvi

Index of Subjects

Acanthochondria platycephali, description of, 123
Adaptation, of parasite to host, ii
Alimentary tract, of *Diclidophora merlangi*, xxv
Allergens, of *Schistosoma mansoni*, xxiv
Amino acids, interrelationships in *Hymenolepis diminuta*, 289
uptake in *Moniliformis dubius*, 185
uptake in schistosomes, xxi
Aminopeptidase, on the surface of *Moniliformis dubius*, 185
Ancylostoma tubaeforme, movement patterns of larvae, 53
Andrya cuniculi, population studies in rabbits, 351
Anisakis sp., in Farne Island grey seal, xxviii
life-cycle of, xxviii
Anthelmintics, with specific antimetabolite effect, xiv
Anti-erythrocyte serum, effect on mice infected with *Babesia rodhaini*, xxx
Antigen, extracts from filariasis in cotton rats, xi
heterologous, effect on worm rejection, xviii
Antimony, effect on schistosomes, xv
Apatemon-gracilis-minor, possible immune reaction against, xvii
Argas (*Persicargas*) *arboreus*, studies of haemolysis rate and meal size, 41
Ascaris lumbricoides, control of energy metabolism in developing eggs, xxii
Aspiculuris tetraptera, egg production, vii
Autoimmunity, in African trypanosomiases, xxiii
Autophagy, in *Fasciola hepatica*, xx

Babesia, *in vitro* studies, xiv
Babesia divergens, tick transmission of, xiii
Babesia rodhaini, effect of anti-erythrocyte serum on infected mice, xxx
Baylisascaris tasmaniensis, behaviour and development, 67
Behaviour, migratory, of *Baylisascaris tasmaniensis*, 67
of hookworm larvae, 53
Bilharzia, water chemistry and aquatic vectors, vii
Bloodmeal volume, effect of host on ticks, 41
Bothriocephalus scorpii, morphology of, viii
Brugia pahangi, effect on cat lymphatic function, vii
immunity and immune mechanisms, x
infections in cats, iv
Bucephalus haimeanus Lacaze–Duthiers, 1854, life-cycle of, 341

Caecal epithelium, changes during maturation of *Fasciola hepatica*, xxix
Carbohydrate uptake, effect of *Moniliformis dubius* in rats, ii
Cercaria, of *Schistosoma mansoni*, infection rates of mice, 219
propulsion of *Himasthla secunda* and *Cryptocotyle lingua*, 1
Cercaria helvetica XII, ultrastructure of sporocysts and developing cercariae, xxxii
Cestodes, Anoplocephaline, incidence in a rabbit population, 351
Classification, of gregarines, xxvi
of new nematode species from European North Atlantic rays, xxviii
of pentastomids, xxvi
the relationship between *Eimeria acervulina* and *Eimeria mivati*, 143
Coccidia, in lambs, xii
Computer simulation, of nematode larval movement patterns, 53
Copepods, chondracanthid, parasitic on Australian fishes, 205
Crassicauda spp., from 'blue' whales, viii
Cryptocotyle lingua, cercarial locomotion, 1

Culture, defined and semi-defined media for *Trypanosoma brucei* sspp., 315
Cyst, surfaces of outer and inner cysticercoid, 85
Cystacanth, activation in *Polymorphus minutus*, xvi
Cytotaenia spp., population studies in rabbits, 351

Defined medium, for culture of *Trypanosoma brucei* sspp., 315
Dermacentor andersoni, salivary gland secretion, 205
Development, inhibited, of *Ostertagia ostertagi*, xvi
of *Baylisascaris tasmaniensis*, 67
of *Eimeria acervulina* and *Eimeria mivati*, 143
of metacercariae of *Bucephalus haimeanus*, 341
Dexamethasone, effect on host resistance to *Raillietina cesticillus*, 375
Diclidophora merlangi, alimentary tract of, xxv
oxygen uptake by, xxii
Dictyocaulus viviparus, exsheathment of larvae, xv
Drugs, anthelmintics with specific antimetabolite effect, xiv
dexamethasone and hexachlorophene, effects on *Raillietina cesticillus* infections, 375
effect of metrifonate on schistosome cholinesterase, xxii
effect on *Eimeria tenella in vitro*, xv
fasciolicidal salicylanilides, xiii
resistance of *Plasmodium berghei* to chloroquine, xiv

Ectoparasites, *Prophryxus globicaudatus*, gen.nov., sp.nov., 365
Transversotrema patialensis, xxvii
Egg production, by *Aspiculuris tetraptera*, vii
Eimeria acervulina, effect of infection rates on oocyst production, 279
relationship with *Eimeria mivati*, 143
Eimeria meleagridis, from British turkeys, xiii
Eimeria mivati, relationship with *Eimeria acervulina*, 143
Eimeria spp., effect on host intestine, xii
Eimeria tenella, effect of infection rates on oocyst production, 279
immunity arising from continuous low-level infections, 331
in vitro chemotherapeutic studies, xv
Energetics, of a host-parasite system, xxi
Energy metabolism, control of, in developing *Ascaris lumbricoides* eggs, xxii
Enzyme kinetics, phosphatases in swine trematodes, 197
Expulsion, of *Trichuris muris*, effect of protozoal infections xix
Exsheathment, of *Dictyocaulus viviparus* larvae, xv
Eye flukes, in Thames fish, vii

Fasciola hepatica, autophagy in, xx
changes in maturing caecal epithelium, xxix
experimental investigations of cell and organ systems, xvi
immunity to, xxv
intrabiliary transfer of, iv
miracidial glands of, xix
naturally acquired immunity to, xxv
Fasciolicidal salicylanilides, structure and function of, xiii
Fasciolopsis buski Lankester, 1857, phosphatase systems in, 197
Filariasis, antigen extracts from, xi
effect of previous infections on subsequent infections, xxv
in cotton rats, iv, v
Fluid secretion, from tick salivary glands, 205
Flukes, a new genus in basking shark, xxvii

Gastrodiscus aegyptiacus Cobbold, 1876, phosphatase systems in, 197
Genetics, a new genetic marker for *Plasmodium berghei*, 17
of resistance to visceral leishmaniasis, xxx

Gland cells, structure and function of, in *Trichinella spiralis*, xxix
Glands, excretory, function in nematodes, xxix
of *Fasciola hepatica* miracidia, xix
penetration, of *Gorgoderina vitelliloba*, xx
penetration, secretions of, in *Hymenolepis diminuta*, xix
Gregarines, classification of, xxvi
Gorgoderina vitelliloba, migration and penetration gland retention, xx
Growth conditions, for *Trypanosoma brucei* sspp., 315
Growth rate, of free-living stages of *Nematospiroides dubius*, 245
in different worm burdens, 133
Gut microflora, *Trichuris suis* in pigs, 253

Haemonchus contortus, effect of hormones on growth, 105
Helminths, of non-human primates, iv
Himasthla secunda, cercarial locomotion, 1
Histopathology, of liver infected with *Taenia crassiceps*, vi
Homeostasis, of *Hymenolepis diminuta* in *Rattus rattus*, 289
Hormones, ecdysone, moulting and juvenile, effect on growth of *Panagrellus redivivus* and *Haemonchus contortus*, 105
Host–parasite relationship, effect of *Trichostrongylus colubriformis* on sheep, v
energetics of, xxi
host–tick interactions, 41
model systems for, i
nematode–insect interactions, i
Trichuris suis development in swine, 253
Hymenolepis, self-infection, iv
Hymenolepis diminuta, free amino acid pool in, 289
immunological rejection, xvii
penetration gland secretion, xix
possible antigen competition, xviii
Hymenolepis microstoma, scolex retraction of, xviii

Immune-adapted population, of *Nippostrongylus brasiliensis*, ix
Immune response, against an intestinal trematode, xvii
effect of hormones on *Trichuris muris*, x
immunodepression in trypanosome infections, xxiii
rejection of *Hymenolepis diminuta*, xvii
Immunity, arising from continuous-low–level infections with *Eimeria tenella*, 333
assay for, in schistosomiasis, xxiv
cell-mediated, in schistosomiasis, xxiv
naturally acquired, to *Fasciola hepatica*, xxv
stage specific in *Trichinella spiralis*, ix
to *Brugia pahangi*, x
to *Fasciola hepatica*, xxv
to intestinal phase of *Trichinella spiralis*, x
to *Plasmodium berghei*, 17
Infection, low-level, of *Eimeria tenella*, producing immunity, 333
Infection rates, effect on oocyst production by *Eimeria* spp., 279
studies on *Schistosoma mansoni* and mice, 219
Intestinal mucosa, effect of *Eimeria* spp., xii
Ixodoidea, *Argas* (*Persicargas*) *arboreus*, 41
Ixodes ricinus, in transmission of *Babesia divergens*, xiii

Leishmaniasis, genetics of resistance to, xxx
Ligula, infestation of Thames bleak, vii
Life-cycle stages, adult, immature and 'unisexual' female *Schistosoma mansoni*, 165
cysticercoid of *Tatria octacantha*, 83
of *Anisakis* spp., xxviii

of *Bucephalus haimeanus*, 341
of *Marsupiobdella africana*, xxvii
of *Trichuris suis*, 253, 263
ookinete of *Plasmodium berghei*, 29
plerocercoids of *Schistocephalus solidus*, 133
Lipid, accumulation of fibroblasts in rabbits infected with trypanosomes, 115
Locomotion, of cercariae, 1
of hookworm larvae, 53

Malaria, reciprocal effects between *Plasmodium* and oncogenic viruses and piroplasms, xxix
Marsupiobdella africana, life history, xxvii
Mast cells, in lungs of rats infected with *Nippostrongylus brasiliensis*, xi
Membrane, outer, of *Schistosoma mansoni*, xxxi
Merozoites, of *Plasmodium knowlesi*, method for isolation of, xxx
Model systems, for host–parasite interactions, i
Moniliformis dubius, effect on rats, ii
surface aminopeptidase and amino acid uptake, 185
Morphology, of *Bothriocephalus scorpii*, viii
of new nematode species, xxviii
of *Trichuris suis* egg and larval stages, 263
Mucosal topography, of lambs infected with *Trichostrongylus colubriformis*, 307

Necator americanus, adaptation to host, ii
ultrastructure and cytochemistry of, xxix
Nematode–insect interactions, i
Nematodes, *Ancylostoma tubaeforme*, larval movements of, 53
Anisakine, in Farne Island Grey Seal, xxviii
ascaridoid, two new species from New Guinea pythons, 229
Baylisascaris tasmaniensis, behaviour and development, 67
effect of juvenile and moulting hormones on growth of, 105
excretory gland function in, xxix
of 'blue' whales, viii
Nematospiroides dubius Baylis, 1926, growth and respiration, 245
New genus, of blood flukes in basking shark, xxvii
Prophryxus, a bopyrid parasite of pontoniinid shrimps, 365
Pterochondria, a chondracanthic copepod, 123
New species, *Ophidascaris niuginiensis* from New Guinea pythons, 229
Ophidascaris papuanus from New Guinea pythons, 229
Prophryxus globicaudatus gen.nov. from *Coralliocaris graminea* (Dana), 365
Nippostrongylus brasiliensis, establishment of an immune-adapted population, ix
mast cells in lungs of infected rats, xi
Nutrition, effects of schistosomiasis on sheep, vi

Oocyst production, effect of continuous low-level infections with *Eimeria tenella*, 333
effect of infection rate with *Eimeria* spp. on, 279
Ookinete, of *Plasmodium berghei*, 29
Ophidascaris niuginiensis sp. nov., growth and development of, 229
Ophidascaris papuanus sp.nov., growth and development of, 229
Ostertagia ostertagi, inhibited development of, xvi
Oxygen consumption, by *Diclidophora merlangi*, xxii
of free-living stages of *Nematospiroides dubius*, 245

Panagrellus redivivus, effect of hormones on growth, 105
Parorchis acanthus, ultrastructure of miracidium, xxxi
Penetration, of host tissue by *Bucephalus haimeanus*, 341
Philonema oncorhynchi, internal pressure changes, xv
Phosphatases, in swine trematodes, 197

Phylogeny, of leeches, xxvii
of pentastomids, xxvi
Plasmodium berghei, ookinete structure and nuclear division, 29
resistance to chloroquine, xiv
strain specific immunity to, 17
Plasmodium knowlesi, method for merozoite isolation, xxx
Plerocercoids, surgical implantation and development, 133
Polymorphus minutus, cystacanth activation and evagination, xvi
Pomphorhynchus laevis, population regulation, vii
Population, of parasites in salmon, ix
regulation of *Pomphorhynchus laevis*, vii
studies on Anoplocephaline cestodes in rabbits, 351
Pressure, internal changes in nematodes, xv
Prophryxus globicaudatus, gen.nov., sp.nov., a bopyrid parasite of shrimps, 365
Pterochondria alatalongicollis, description and reclassification, 123

Raillietina cesticillus, effect of steroids on the course of infection, iii
host resistance to secondary infections of, 375
Recombination, a frequent genetic event in *Plasmodium berghei*, 17
Reproductive system, female, of *Schistosoma mansoni*, 165
Resistance, of host to secondary infections of *Raillietina cesticillus*, 375

Salivary glands, secretion of, in *Dermacentor andersoni*, 205
Salmon, parasite fauna of, ix
Scanning electron microscopy, of duodenal mucosa of lambs infected with nematodes, 307
Schistocephalus solidus, *in vivo* growth of plerocercoids, 133
Schistosoma mansoni, allergens of, xxiv
female reproductive system of, 165
in vitro ultrastructural studies of, xxxi
outer membrane of, xxxi
studies of infections in mice, 219
Schistosoma matthei, experimental infections, iii
Schistosomiasis, cell-mediated immunity in, xxiv
effect of antimony on, xv
ovine, experimental, iii, vi
water chemistry and aquatic vectors of, vii
Schistosomes, amino acid uptake by, xxi
assay for immunity to, xxiv
effect of metrifonate on cholinesterases in, xxii
Scolex, retraction in cysticercoid larva of *Hymenolepis microstoma*, xviii
Self-infection, with *Hymenolepis*, iv
Serum, human, trypanocidal action of, xxxi
Steroids, effect on cestode infection of fowl, iii
Surface enzyme, aminopeptidase in *Moniliformis dubius*, 185
Survival, of *Trichuris muris* in wild host populations, 157
Syngamus trachea, ultrastructure of the amphids and amphidial glands, xxxii

Taenia crassiceps, histopathology of infected liver, vi
Tatria octacantha Rees, 1973, ultrastructure of cysticercoid, 85
Techniques, artesian diver respirometry, 245
for investigating cell and organ functions in *Fasciola hepatica*, xvi
Ticks, haemolysis rate and meal size, 41
host–tick interactions, 41
Tissue fluid, changes associated with trypanosome infections, 115
Toxoplasma gondii, ultrastructure of intestinal forms, xii
Transfer, intrabiliary, of *Fasciola hepatica*, iv
Transversotrema patialensis, observations on, xxvii

Trichinella spiralis, immunity to intestinal phase of, x
stage specific immunity, ix
structure and function of hypodermal gland cells of, xxix
Trichostrongylus colubriformis, effect on sheep, v
ultrastructure of duodenal mucosa of infected lambs, 307
Trichuris muris, effects of hormones on immune response, x
effect of protozoal infections on expulsion, xix
survival in natural hosts in the wild, 157
Trichuris suis, biology of life-cycle of, 253
egg and larval stages of, 263
Trypanosoma brucei sspp., cultivation media for, 315
Trypanosoma (*Trypanozoon*) *brucei*, connective tissue changes associated with infections in rabbits, 115
Trypanosoma (*Schizotrypanum*) *cruzi*, experimental infections in mice, xxiii
Trypanosomiases, African, autoimmunity in, xxiii
Trypanosomes, avian, biology of, xxiii
immunodepression during infection with, xxiii
trypanocidal action of normal human serum, xxxi

Ultrastructure, of amphids and amphidial glands of *Syngamus trachea*, xxxii
or cysticercoid of *Tatria octacantha*, 85
of duodenal mucosa of lambs infected with *Trichostrongylus colubriformis*, 307
of female reproductive system of *Schistosoma mansoni*, 165
of intestinal forms of *Toxoplasma gondii*, xii
of *Necator americanus*, xxix
of ookinete of *Plasmodium berghei*, 29
of *Parorchis acanthus* miracidium, xxxi
of *Schistosoma mansoni in vitro*, xxxi
of stages of *Cercaria helvetica XII*, xxxii
of tick salivary glands, 205

Villus atrophy, in lambs infected with *Trichostrongylus colubriformis*, 307
Vitamin deficiency, and filariasis, iv, v

Water contact, effect on infection of mice with *Schistosoma mansoni*, 219
Worm numbers, of *Trichuris muris* in wild host populations, 157
relationship to microfilarial levels, iv
Wound healing, in rabbits infected with trypanosomes, 115